			L	Date:
Name:	Trade:	DC/LU:	Assessor:	

Evaluation: During the On-the-Job (OJL) assessment, students are required to demonstrate proficiency in the identified discipline/s and their related competencies through assigned activities. Students will be rated as **SKILLED (1)** or **REMEDIATION (2)**

INDUSTRIAL COATINGs and LINING APPLICATION SPECIALIST (CAS)

Competency	Performance Rating	Date Completed	Assessor's Initials	Student's Initials
4.1 HEALTH AND SAFETY AWARENESS				
 Don (put on), doff (remove), inspect, and maintain the proper PPE that should be worn during painting and decorating application including, but not limited to: Head Face Eyes Ears Hands Body Feet Respiratory 	1 2			
 Perform a job analysis for safe working conditions: Attend pre-job safety meetings Adhere to site specific safety rules and federal regulations Observe Vessel Entry/Confined Space regulations Read and interpret MSDS Establish and maintain a safe working perimeter 	1 2			
Safely demonstrate the proper use and maintenance of tools and equipment.	1 2			
Maintain clean work areas (housekeeping).	1 2			
Demonstrate how to perform positive and negative fit checks on selected respirators.	1 2			
Use selected monitoring equipment to measure the atmosphere in a	1 2			

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confined space.				
Recognize the symptoms associated with excess exposure to heat and cold.	1 2			
Store, handle, and transport tools, equipment and materials properly.	1 2			
Identify the locations of First Aid and Fire Equipment.	1 2			
Correctly use fall arresting and other fall protection equipment.	1 2			
Demonstrate safe work practices for erecting and dismantling scaffolds, including: pre-planning, inspecting scaffold components, load capacity, platform construction, access requirements, and fall protection.	1 2			
Demonstrate a pre-inspection and the safe operation of an aerial lift.	1 2			
Describe and demonstrate the proper use of various types of personal fall protection equipment.	1 2			
Describe and demonstrate the steps of ladder safety, including: selection, inspection, setup, safe techniques and proper maintenance and storage.	1 2			
Use flags and paddles to safely control vehicle movements around work zones in accordance with state and national guidelines.	1 2			
Demonstrate the measurement of a selected containment ventilation air pressure and/or air flow requirement using the appropriate instrumentation.	1 2			
Recognize and describe a selected emission quality assessment method.	1 2			
Perform and explain the procedures for conducting forklift inspections.	1 2			
Calculate load weight and determine forklift capabilities for that load.	1 2			
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4.2 Introduction to industrial coatings				
Demonstrate the characteristics of a professional Industrial Coating and Lining Application Specialist:	1 2			
Exhibit suitable appearance and personal hygiene.	1 2			
Exhibit proper attitude and behavior on the job site, including private residences and other occupied buildings.	1 2			
Deal with difficult customers in a professional and courteous manner.	1 2			

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•	Interpret written and verbal instructions.	1 2			
•	Recognize the importance of cooperation and interaction with related trades on a job site.	1 2			
•	Demonstrate the ability to follow specific work place protocol and procedures.	1 2			
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4.3	MATERIALS AND CORROSION				
•	Recognize the critical role of the applicator in providing protection from corrosion.	1 2			
•	Recognize the 8 basic forms of corrosion.	1 2			
•	Demonstrate the 5 basic methods of mitigating corrosion.	1 2			
•	Select conditions that meet project demands in various conditions and service environments	1 2			
•	Set-up of a jobsite including selection of trailers, storing flammable liquids, waste thinner, hazardous lead waste, and tarps.				
•	Demonstrate the ability to tie knots correctly and understand the different types of knots used in Industrial applications.	1 2			
•	Store, handle, and transport tools, equipment and materials properly.	1 2			
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4.4	SURFACE PREPARATION				
•	Apply proper surface preparation techniques to achieve the maximum level of protection available through protective coatings systems.	1 2			
•	Create a surface that meets industry standards defining an achievable surface cleanliness level.	1 2			
•	Demonstrate the safe and appropriate application of surface preparation techniques: Solvent cleaning Hand tool cleaning Power tool cleaning Water jetting Chemical stripping Abrasive blast cleaning Vacuum blast cleaning Vacuum blast cleaning Vacuum blast cleaning Centrifugal blast cleaning Sodium bicarbonate blast cleaning Cleaning Carbon dioxide blast cleaning Laser removal cleaning	1 2			

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•	Demonstrate and describe the proper use, maintenance and storage of surface preparation tools and equipment.	1 2			
•	Demonstrate solvent hand tool cleaning, safety, PPE, methods, care, and repair SSPC – SP1.	1 2			
•	Demonstrate power tool safety, PPE, methods of use, standards, and inspection SSPC – SP3.	1 2			
•	Demonstrate the proper setup of compressor, blast pot, and separators with control valves, hose and coupling layout.	1 2			
•	Demonstrate abrasive blasting system operation guidelines: warnings and hazards, pre-start, daily checks, start-up, operation, and shutdown.	1 2			
•	Create a surface that meets industry standards defining an achievable surface cleanliness level.	1 2			
•	Demonstrate the proper use, care, PPE, and inspection of water cleaning and water jetting				
•	Recognize and describe surface preparation of concrete in accordance with SSPC – SP13/NACE 6.				
•	Measure ambient conditions				
•	Determine when to measure ambient conditions.				
•	Recognize when coating operations should not be permitted due to adverse ambient conditions.				
•	Identify and employ troubleshooting techniques and procedures.				
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4.5	SPRAY APPLICATIONS				
•	Demonstrate proper spray techniques for each of the spray systems and troubleshoot spray pattern problems.	1 2			
•	Demonstrate proper care and maintenance of spray equipment.	1 2			
•	Demonstrate appropriate use and safe handling of spray equipment.	1 2			
•	Recognize, select, and demonstrate the following equipment for coating application: O Brushes and rollers O Electrostatic sprayers O Conventional O Plural component proportioning equipment O Airless and air-O Wire flame and wire arc sprayers assisted airless O Dry powder coating application processes	1 2			

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	o HVLP Sprayers	-			
•	Demonstrate the proper selection of primers, paints and stains for various residential or commercial applications.	1 2			
•	Demonstrate thermo spraying methods, i.e., wire flame, powder flame, electric arc and plasma.	1 2			
•	Demonstrate safe and proper methods to mix paint.	1 2			
•	Demonstrate proper use of wet film thickness gauge.	1 2			
•	Demonstrate the procedures required to clean and lubricate a spray gun.	1 2			
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4.6	COATINGS				
•	Demonstrate proper use of wet film thickness gauge.	1 2			
•	Demonstrate quality inspection procedures for monitoring ambient air, surface temperature, and surface profile.	1 2			
•	Interpret manufacturer's catalog product data sheets to determine recommended uses and product/performance characteristics for industrial coatings.	1 2			
•	Use Material Safety Data Sheets (MSDSs) to determine the hazards, appropriate personal protective equipment, and other safety-relevant information pertaining to the use of industrial coatings.	1 2			
•	Use manufacturer's coating application bulletins to determine the proper surface preparation and application procedures required for use with industrial coatings.	1 2			
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4.7	SPECIALTY APPLICATIONS				
<i>Co</i>	Account for the effect each component has on concrete composition. Determine Alkali – Aggregate Reaction and Moisture Vapor Transmissions. Demonstrate the treatment and repair of concrete irregularities, joints and cracks. Demonstrate product mixing and thinning techniques. Conduct an adhesion test of a coating over concrete.	1 2			

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Plural Components Determine the appropriate use of plural component application. Recognize and troubleshoot common problems associated with industrial coatings applied by the plural-component spray method.	1 2			
 Thermal Spray Demonstrate correct and safe operating procedures during electric arc spraying. Demonstrate the ability to apply a thermal spray coating using the arcspray method and employ the bend test, cut test, and ensile strength bond inspection tests as described. Employ safe operating procedures during electric arc spraying. 	1 2			
 Waterjetting Don and doff the proper PPE for waterjetting tasks. Perform daily inspection procedures and identify equipment problems. Evaluate surfaces if the required level of cleanliness has been achieved. 	1 2			
 Powder Coatings Demonstrate and describe the two basic powder application systems and their components. Select the most appropriate method of powder coating application for the job. Demonstrate the basics of operating, cleaning, and maintaining the equipment in powder coating systems. 	1 2			
Pipeline Coatings Specify inspection testing of pipeline coatings to identify defects and the appropriate methods of repairing them. Demonstrate plant and field application of pipeline coating systems with different materials and methods of application.	1 2			
 Electrostatic Spray Demonstrate and describe the use of automated and manual systems. Demonstrate operational and safety guidance. 	1 2			
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4.8 CONTRACTOR QUALITY MANAGEMENT				
Demonstrate the ability to determine WFT by notch gauge, DFT by SSPC – PA 2, adhesion by tape method, and dryness or state of cure.	1 2			

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Demonstrate a working knowledge of the requirements and standards that apply to the various tasks involved in the QC inspection process, including: Pre-surface preparation inspection Measurement of ambient conditions Evaluation of compressor, air cleanliness, and surface preparation equipment Determination of surface preparation, cleanliness, and profile Mixing and thinning of coating materials Evaluation of application equipment Inspecting coating application and cleanliness between coats Determination of wet-film and dry-film thickness Pinhole and holiday testing Evaluating adhesion/cure	1 2			
Demonstrate how to calibrate and use the test equipment and instruments needed to verify compliance with the various QC inspection tasks.	1 2			
Demonstrate how to fill out the various forms used to record the results of QC inspections.	1 2			
• Apply antiqued finishes to a properly prepared surface using methods such as rubbing with steel wool and spattering.	1 2			

Comments			
(Signature)		(Date)	